

**City of Antioch  
Proposition 1E Grant Proposal  
Attachment 4**

**Budget**



**City of Antioch**  
**Proposition 1E Stormwater Flood Management Grant Proposal**

**ATTACHMENT 4 –  
BUDGET**

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**Summary Proposal Budget**

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The total cost of implementing this proposal, which includes a single multi-benefit flood control project, the *Drainage Area 55- West Antioch Creek Channel Improvements Project*, is **\$5,994,600**. Of this amount, **\$2,997,300** is Non-State funding and **\$2,997,300** is being requested as part of the Proposition 1E Stormwater Flood Management Grant Program. The funding match for this proposal is **50%**.

**Table 7** on the following page provides a breakdown of the overall costs for proposal implementation. In accordance with the PSP, **Table 6** has been completed for the *Drainage Area 55- West Antioch Creek Channel Improvements Project* and shows a breakdown of the overall by and budget category. Detailed cost estimates for each of the tasks and subtasks are provided in the following pages, including supporting documentation for these estimates. In accordance with the PSP, the budget items align with the work tasks described in Attachment 3 – Work Plan and Attachment 5 – Schedule.

**Table 7 - Summary Budget**

Table 7 - Summary Budget						
Proposal Title: City of Antioch Proposition 1E Stormwater Flood Management Grant Proposal						
Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
<b>(a)</b>	Drainage Area 55 - West Antioch Creek Channel Improvement Project	\$2,997,300	\$2,997,300	\$0	\$5,994,600	<b>50%</b>
<b>(b)</b>	Project B				\$0	<b>0%</b>
<b>(c)</b>	Project C				\$0	<b>0%</b>
<b>(d)</b>	Project D				\$0	<b>0%</b>
<b>(e)</b>	Project E				\$0	<b>0%</b>
<b>(f)</b>	Project F				\$0	<b>0%</b>
<b>(g)</b>	Project G				\$0	<b>0%</b>
<b>(h)</b>	Project H (add more rows for additional projects as necessary)				\$0	<b>0%</b>
<b>(i)</b>	<b>Grand Total</b> (Sum rows (a) through (h) for each column)	<b>\$2,997,300</b>	<b>\$2,997,300</b>	<b>\$0</b>	<b>\$5,994,600</b>	<b>50%</b>

## Task 1 – Drainage Area 55 - West Antioch Creek Channel Improvements

**Table 6** below presents the budget for the Drainage Area 55 – West Antioch Creek Channel Improvements Project. The following pages document the basis for this cost estimate.

Table 6 - Project Budget						
Proposal Title: City of Antioch Proposition 1E Stormwater Flood Management Grant Proposal						
Project Title: Drainage Area 55 - West Antioch Creek Channel Improvement Project						
Budget Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
<b>(a)</b>	Direct Project Administration Costs	\$285,500			\$285,500	<b>100%</b>
<b>(b)</b>	Land Purchase/Easement	\$400,000			\$400,000	<b>100%</b>
<b>(c)</b>	Planning/Design/Engineering/ Environmental Documentation	\$530,000			\$530,000	<b>100%</b>
<b>(d)</b>	Construction/Implementation	\$746,000	\$2,997,300		\$3,743,300	<b>20%</b>
<b>(e)</b>	Environmental Compliance/ Mitigation/Enhancement	\$100,000			\$100,000	<b>100%</b>
<b>(f)</b>	Construction Administration	\$187,100			\$187,100	<b>100%</b>
<b>(g)</b>	Other Costs	\$0			\$0	<b>0%</b>
<b>(h)</b>	Construction/Implementation Contingency	\$748,700			\$748,700	<b>100%</b>
<b>(i)</b>	<b>Grand Total (Sum rows (a) through (h) for each column)</b>	<b>\$2,997,300</b>	<b>\$2,997,300</b>	<b>\$0</b>	<b>\$5,994,600</b>	<b>50%</b>
<p><b>*List sources of funding:</b> Use as much space as required.            Drainage Area 55 Impact Fees, Local Assessment Districts 27 and 31</p>						

**Row (a) Costs: Task 1A – Project Administration**

The project administration budget will fund overall project administration and management, development of a Labor Compliance Program, and project reporting (including reporting on project monitoring and assessment). Project administration has been estimated as 5 percent of total project costs, for a total of \$285,500, based on experience completing similar projects.

**Row (b) Costs: Task 1B –Land Purchase/Easement**

Budget for land purchase / easements will cover purchase of a new permanent easement for the box culvert system, as well as temporary easements required during construction. Easement costs have been estimated as follows:

- Cost associated with purchase of land: \$100,000
- Cost associated with securing easements: \$300,000
- Total land purchase/easement cost : \$400,000

**Row (c) Costs: Task 1C – Planning/Design/Environmental Documentation**

Planning / design / environmental documentation funds will be used to complete the following tasks:

- 1C.1. Design: Preparation of plans and specifications for project implementation. Estimated costs for this task, based on similar project experience, are \$530,000.
- 1C.2. Environmental Documentation: Completion of the Habitat Conservation Plan process and completion and filing of CEQA documentation
- 1C.3. Permitting: Securing the following required permits: ACOE 404, DFG 1602, and SWRCB 401

Costs have been estimated as shown in the following table.

Task #	Descr.	Labor Costs				Expense Costs		Contingency		Total Cost
		Discipline	Rate	Hrs.	Total Labor	Expense Item	Cost	%	Amt.	
1C.1.	Design					Design Consultant	\$530,000			\$530,000
1C.2.	Env. Doc.	<i>Budget included in design line item (Task 1C.1).</i>								
1C.3.	Permitting									
	<b>TOTAL</b>									<b>530,000</b>

**Row (d) Costs: Task 11D – Construction/Implementation**

The construction budget will cover contracting, mobilization and sitework, and construction-related costs. Estimated costs are provided in the table below. Construction contracting costs have been included in the line item budget for Construction Administration.

Task	Item	Description	Unit	Unit Cost	Quantity	Total
1D.1 Construction Contracting	<i>Budget included in Construction Administration line item.</i>					
1D.2. Mobilization and Site Preparation	1	Water Pollution Control Program	1	\$10,000	1	\$10,000
	2	Water Control	1	\$50,000	1	\$50,000
	3	Temporary Fence	LF	\$16	1400	\$22,400
	4	Clearing and Grubbing	1	\$50,000	1	\$50,000
	5	Traffic Control	1	\$8,000	1	\$8,000
	6	Mobilization	1	\$25,000	1	\$25,000
	7	Construction Area Signs	1	\$3,000	1	\$3,000
<i>subtotal</i>						\$82,400
1D.3. Construction	1	Wing Walls	EA	\$20,000	2	\$40,000
	2	Rip Rap Protection (1/4 ton rock)	TONS	\$130	394	\$51,220
	3	Fine Grading at Transition	EA	\$5,000	2	\$10,000
	4	Utility Relocation	1	\$50,000	1	\$50,000
	5	Remove and Reconstruct Car Port	1	\$25,000	1	\$25,000
	6	Channel Excavation	CY	\$60	9185	\$551,100
	7	Culvert Concrete	CY	\$400	4947	\$1,978,800
	8	Culvert Steel	LBS	\$0.72	1,231,320	\$886,550
	9	Minor Concrete (Sidewalk)	SF	\$10	580	\$5,800
	10	Minor Concrete (S1-6 Curb)	LF	\$35	232	\$8,120
	11	Minor Concrete (Median)	SF	\$10	116	\$1,160
	12	Asphalt Concrete (Str 6" sec 16" AB	TONS	\$170	147	\$24,990
	13	Asphalt Concrete (Parking Lot, 4" sec 6"AB)	TONS	\$140	201	\$28,140
<i>subtotal</i>						\$3,660,880
<b>TOTAL (rounded)</b>						<b>\$3,743,300</b>

**Row (e) Costs: Task 11E – Environmental Compliance/Mitigation/Enhancement**

Budget included in this task covers implementation of mitigation actions identified in the Habitat Conservation Process, which provides for project mitigation as outlined in the East County Habitat Conservation Plan. In addition, the task includes implementing project mitigation measures required by regulatory agencies. Costs are estimated to be approximately \$100,000 based on experience completing similar projects.

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**Row (f) Costs: Task 1F – Construction Administration**

Construction administration budget will cover the following tasks:

- Construction Contracting: bid advertisement, contract award, etc
- Construction Inspection: construction management and project oversight
- Material Testing: Testing and approval of construction materials (i.e., concrete testing, reinforcing steel approval, compaction testing, base material approvals, etc.)
- Contract Administration: Approval of billing submittals, certified payrolls, processing of change orders and contract payments
- Project Acceptance: Prepare final report and obtain Council Approval
- Surveying: Survey site to obtain design and construction information

Construction administration costs were assumed to be approximately 5 percent of construction costs, based on experience completing similar projects. Construction administration costs are estimated to be \$187,100.

**Row (g) Costs: Task 1G – Other Costs**

No other costs are expected for this project.

**Row (h) Costs: Construction/Implementation Contingency**

A twenty percent construction contingency has been added for this project, for a total of \$748,700. Twenty percent was identified as a reasonable contingency based on the expected accuracy of the cost estimate and experience with similar projects.

**Row (i) Costs: Grand Totals**

The total estimated cost of this project is \$5,994,600. The project will be funded through the following mechanisms:

- \$2,997,300 in non-State funding (funding match) from Drainage Area 55 Impact Fees and Local Assessment Districts 27 and 31
- \$2,997,300 in requested grant funding
- \$0 in other State funding